

DC1

Digital Camera and Light Box for Macrophotography

1. Take blue cover and lens cap off the camera
2. Turn camera power supply on (wall plug)
3. Check camera settings;
 - a. Check dial on LHS of camera is set to M (not R)
 - b. Check dial on RHS of camera is set on the red 'B'
 - c. Check aperture wheel is set to F16
 - d. Check extra lens wheel is in the green section, 30 is probably optimal
 - e. Blue wheel doesn't matter
4. Log into PC and network, and open Phase One software
5. Set Phase One Capture resolution (e.g. size 5.9" x 5.9 ", resolution 300 pixels/inch; image size 9.0MB, enough for most applications)
6. Set Phase One Camera settings (higher ISO = brighter but noisier image)
7. Set Phase One Exposure to 1/30 to start with
8. Pull front cover down towards you to open the camera imaging window
9. Turn on light box
10. Position gel/dish etc under camera
11. Move small upside-down T switch to right-hand position (you need to press the small metal bit on the switch).
12. Pull large lever on LHS of camera down, and you should see an image in the window
13. Turn knob on main stand to change distance, and knob on RHS of camera to focus
14. Press upside-down silver button (back LHS under lever) to open 1st shutter
15. Move small upside-down T switch to left-hand position (you need to press the small metal bit on the switch).
16. Use extension cable to open 2nd shutter
17. Click Phase One Capture
18. Too dark or too light? Exposure meter will automatically tell you whether (and how much) to increase/decrease exposure
19. Background pinkish colour? Move your specimen out of the way, go to Adjust Gray balance (normally called white balance), save the new settings, and capture a new image using the adjusted Gray balance
20. Repeat stages 10– 17 inc. for each gel/dish you wish to photograph
21. Images will be automatically be saved to C:\Programs\PhaseOne\images
22. When you have finished you session, drag the images from this folder to your designated group space on the server. Do NOT set this location as the default!
23. Turn off camera power supply (wall plug), put lens cap and blue cover back on camera.